

NORTH CAROLINA

Department of Transportation



















Powell Bill Overview

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To: Joint Appropriations Committee on Transportation March 5th, 2019

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Street Aid to Municipalities - Powell Bill Funds

- Funds allocated from the Highway Fund to provide financial assistance for streets maintained by municipalities
- S.L. 2013-183: Eliminated One and three-fourths cents (1 3/4c) tax on each gallon of motor fuel taxed and eliminated revenue allocated and appropriated from the Highway Trust Fund. Established ten and four-tenths percent (10.4%) annual appropriation of the State Highway Fund using the statutory formula:
 - FY 2013-2014 \$147.5M
 - FY 2014-2015 \$147.5M
- S.L. 2013-183 also directed funds could be used "for planning, construction and maintenance of bikeways, greenways, or sidewalks."
- S.L. 2015-241: Eliminated statutory formula and established **fixed appropriation** from the State Highway Fund:
 - FY 2015-2016 \$147.5M
 - FY 2016-2017 \$147.5M
- S.L. 2015-241 also directed funds be used "primarily for the resurfacing"
- S.L. 2017-257: Continued fixed appropriation from the State Highway Fund:
 - FY 2017-2018 \$147.5M
 - FY 2018-2019 \$147.5M
- S.L. 2017-257 also directed a report looking at Population Seasonal Shift Impact on the formula

Total Appropriation: FY 2015 – FY 2019

Fixed appropriation from the State Highway Fund:

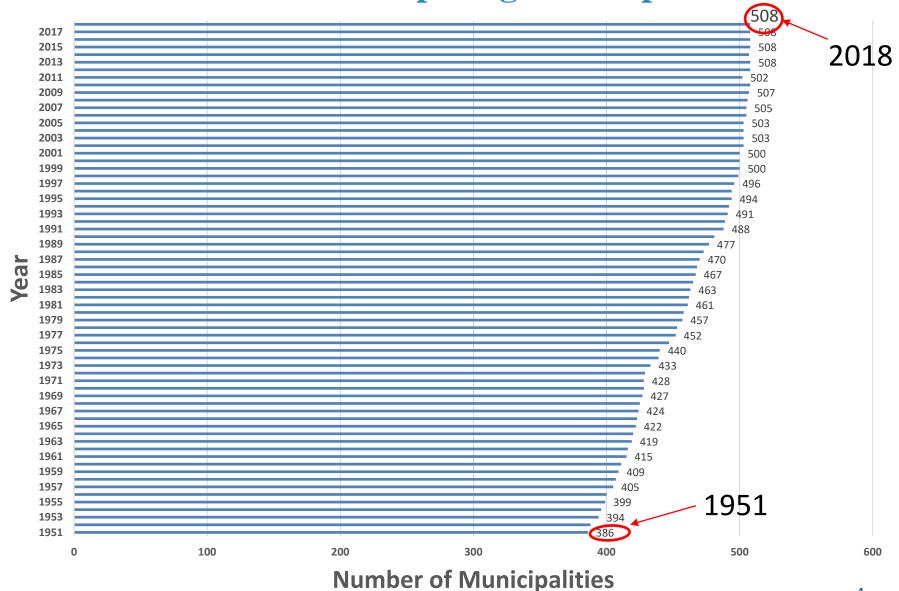
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FY 2015-2016 - $147.5M
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FY 2016-2017 - \$147.5M

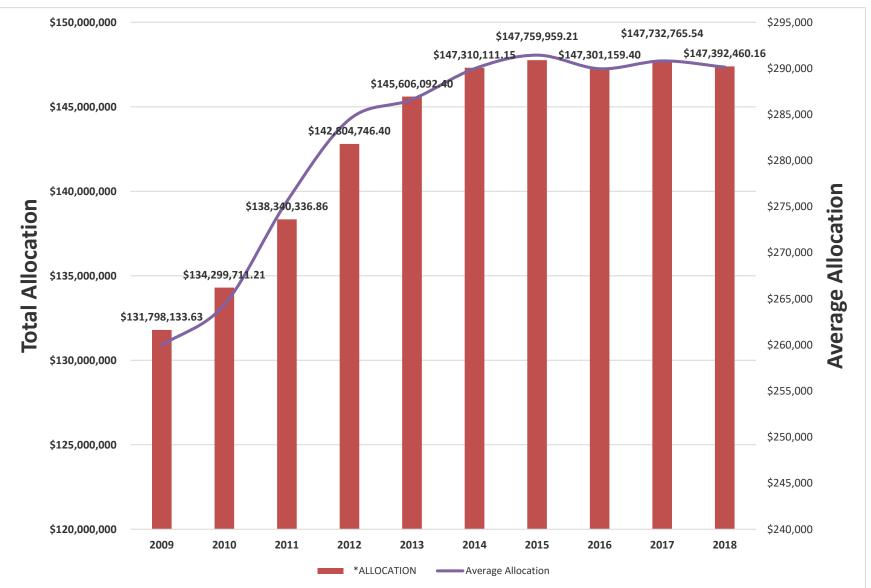
FY 2017-2018 - \$147.5M

FY 2018-2019 - \$147.5M

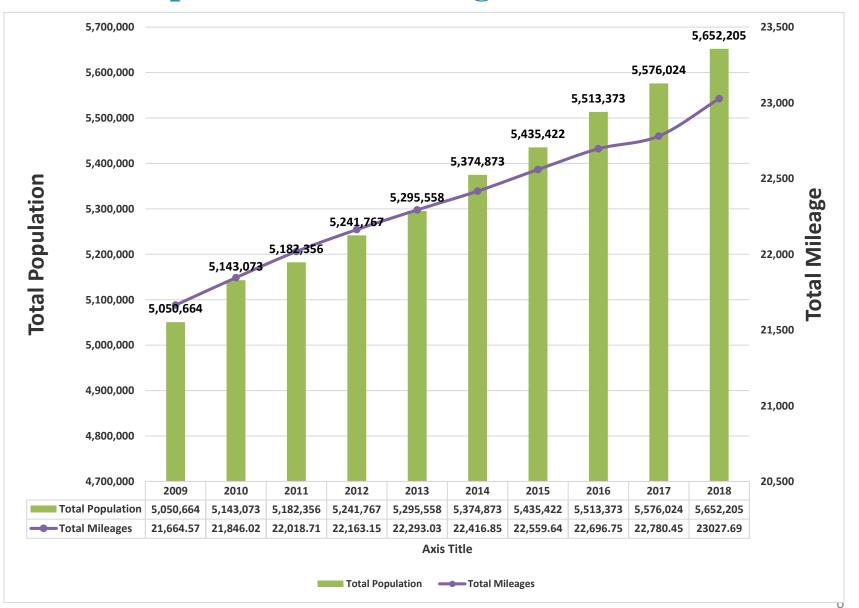
Number of Participating Municipalities



Powell Bill Total /Average Allocations: 2009-2018



Total Population and Mileage Trends: 2009-2018



Allocation Formula NCGS 136-41.1(a)



75%

25%



2018 Allocation \$147,392,460.16

5,652,205 population = \$19.56 per capita 23,027.69 miles = \$1,600.17 per mile

* Mileage of the public streets which are not part of the state or federal highway system.

Status of 2018 Distribution

- Distribution of \$147.4 million to 508 municipalities for 2018 has been completed.
- About 90 percent of the municipalities have a population less than 20,000. Those municipalities receive 28 percent of the funding.

Largest and Smallest Recipients

| | Municipality | County | Population | Miles | Allocation |
|-------------------|------------------------------------|---------------------------------|-------------------------------|-------------------------|---|
| Three Largest | Charlotte Raleigh Greensboro | Mecklenburg Wake Guilford | 845,235 460,285 288,190 | 2,504 1,099 1,035 | \$20,537,251 \$10,760,267 \$7,293,172 |
| Three Smallest | Falkland Bear Grass Raynham | Pitt Martin Robeson | 97 73 94 | 0.05 0.69 0.57 | \$1,977 \$2532 \$2751 |

Eligible Activities

- □ *SL2015-241, Section 29.17D.(b) requires Powell Bill funds to be used primarily for contract resurfacing.
- Maintaining, repairing, constructing, reconstructing or widening of any streets or bridges
- □ Planning, construction, and maintenance on streets, sidewalks, bikeways, and greenways such as:
 - · Curb and gutter
 - Storm drainage
 - Patching
 - Resurfacing*
 - Widening
 - Snow removal
 - Sand and debris removal resulting from natural causes
 - Street sweeping
 - Purchase or rental of equipment

- ☐ <u>Traffic Control</u> such as:
 - Purchase and maintenance of traffic control devices
 - Traffic signs for proper traffic control
 - Speed bumps
 - Traffic paint for on-street parking or crosswalks
 - Traffic cones
- ☐ Municipal Street Bond Debt Service such as:
 - Current payment of principal or interest due on bonds outstanding issued exclusively for streets and sidewalks.

Powell Bill Expenditures for FY 2018

| Expense Type | ↓↓ Sι | um of Amount | Sum of Percentage |
|--|-------|----------------|-------------------|
| Paving & Resurfacing | \$ | 80,621,858.23 | 52.23% |
| Maintenance | \$ | 33,206,302.87 | 21.51% |
| Debt Service Payment | \$ | 9,514,058.52 | 6.16% |
| Sidewalks | \$ | 4,791,942.52 | 3.10% |
| New Equipment | \$ | 4,025,433.50 | 2.61% |
| Maintenance as part of Paving Project | \$ | 3,997,252.06 | 2.59% |
| Drainage & Storm Sewer | \$ | 3,405,380.02 | 2.21% |
| Snow & Ice Removal | \$ | 3,246,331.78 | 2.10% |
| Traffic Control | \$ | 3,148,004.86 | 2.04% |
| New Construction | \$ | 2,406,434.43 | 1.56% |
| Engineering | \$ | 2,328,988.14 | 1.51% |
| Curb & Gutter | \$ | 1,816,788.69 | 1.18% |
| Right of Way | \$ | 692,685.21 | 0.45% |
| Bridge Construction and Repair | \$ | 572,920.14 | 0.37% |
| TIP (Transportation Improvement Projec | t) \$ | 434,786.95 | 0.28% |
| Greenways | \$ | 101,791.26 | 0.07% |
| Bikeways | \$ | 44,928.89 | 0.03% |
| Grand Total | \$ | 154,355,888.07 | 100.00% |

S.L. 2017-57

STATE AID TO MUNICIPALITIES/NO FUNDS IF MUNICIPALITY FAILS TO FILE STATEMENT AND STUDY HOW TO ACCOUNT FOR SEASONAL POPULATION SHIFTS

SECTION 34.17.(a) G.S. 136-41.3 reads as rewritten:

- "§ 136-41.3. Use of funds; records and annual statement; excess accumulation of funds; contracts for maintenance, etc., of streets.
- (a) Uses of Funds. The Except as otherwise provided in this subsection, the funds allocated to cities and towns under the provisions of G.S. 136-41.2 shall be expended by said cities and towns primarily for the resurfacing of streets within the corporate limits of the municipality but may also be used for the purposes of maintaining, repairing, constructing, reconstructing or widening of any street or public thoroughfare including bridges, drainage, curb and gutter, and other necessary appurtenances within the corporate limits of the municipality or for meeting the municipality's proportionate share of assessments levied for such purposes, or for the planning, construction and maintenance of bikeways, greenways, or sidewalks. The funds allocated to cities and towns under the provisions of G.S. 136-41.2 shall not be expended for the construction of a sidewalk into which is built a mailbox, utility pole,

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Session Law 2017-57

Senate Bill 257

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(b1) Failure to File. — A municipality that fails to file the statement required under subsection (b) of this section by October 1 is ineligible to receive funds allocated on October 1 under G.S. 136-41.1 or G.S. 136-41.2 for the fiscal year in which the municipality failed to file the statement. A municipality that fails to file the statement required under subsection (b) of this section by January 1 is ineligible to receive funds allocated under G.S. 136-41.1 or G.S. 136-41.2 for the fiscal year in which the municipality failed to file the statement.

...."

SECTION 34.17.(b) Study. – The Department of Transportation shall study how to adjust the formula in G.S. 136-41.1(a) to account for seasonal shifts in municipal populations. The Department of Transportation shall report its findings, including any legislative recommendations, to the Joint Legislative Transportation Oversight Committee by December 1, 2017.

SECTION 34.17.(c) Effective Date. – G.S. 136-41.3(b1), as enacted by subsection (a) of this section, is effective when it becomes law and applies to allocations on or after that date. The remainder of this section is effective when it becomes law.

SL 2017- 57

Population Seasonal Shift Changes







Finding 1. Other DOTs Current Practice in Allocating Funding for Local Roads Maintenance

6 States Distribute Based on Mileage Only



11 States Distribute Based on Population Only



18 States
Distribute Based
on Mileage and
Population



*15 States used other factors for funding distribution

| | State | Distribution Based on | | | | |
|-----------|--------------------|------------------------------------|---|--------|--|--|
| # | | Population | Mileage | Others | | |
| 1 | California | 75% | 25% | | | |
| 2 | Connecticut | Pro rata | \$1,500/mile for first 32 mile | | | |
| 3 | Delaware | 40% | 60% | | | |
| 4 | Idaho | 30% | 31.5% | 38.5% | | |
| 5 Illi | Illinais | 33.3% | 33.3% | 33.3% | | |
| | Illinois | 35% | 16% | 49% | | |
| 6 Indiana | | 66.4% | 21% | 1.6% | | |
| | Indiana | 60.0% | 40% | | | |
| | | 20% | 80% | | | |
| 7 | Louisiana | Various rate for 6 classifications | Allocation base on mileage for municipalities with population grater than 475,000 | | | |
| 8 | Michigan | 20% | 80% | | | |
| 9 | Minnesota | 10% | 30% | 60% | | |
| 10 | Mississippi | 33.3% | 33.3% | 33.3% | | |
| 11 | Montana | 45.8% | 45.8% | 8.4% | | |
| 12 | North Carolina | 75% | 25% | | | |
| 13 | Oklahoma | 21% | 31% | 48% | | |
| 14 | Pennsylvania 50% 5 | | 50% | | | |
| 15 | South Carolina | 33.3% | 33.3% | 33.3% | | |
| 16 | Tennessee | 33.3% | 33.3% | 33.3% | | |
| 17 | Texas | 49.2% | | 50.2% | | |
| 18 | Wisconsin | 40% | 60% | | | |

Finding 2. Reliable Data Sources for Seasonal Population Estimation

Seasonal Population: Number of visitors to a city who stay between one day to six months.

- 1. Census 2010 data is the most comprehensive and reliable data.
- 2. Other reliable and cost-efficient sources for seasonal population estimations are:
 - NC State Demographer's Office
 - 5-Year American Community Survey (ACS)
 - Seasonal Tourism Volume

| Population | Components | Data Source | Where to add it to the proposed formula? | Will be feasible to account? | Is it relevant? |
|---|-------------------------------|--|--|------------------------------|-----------------|
| Permanent Population Seasonal Population | Household population | NC State Demographer's Office | Population | Yes | Yes |
| | Military population | NC State Demographer's Office | Population | Yes | Yes |
| | Students (College | NC State Demographer's Office | Population | Yes | Yes |
| | Prisoners | NC State Demographer's Office | Population | Yes | Yes |
| | Seasonal residents | 2010 US Census 5-year American Community Survey Seasonal Tourism Volume NC State Demographer's Office | Population | Yes | Yes |
| | Agricultural/Seasonal workers | US Census Bureau | Population | No | No |
| Others | Commuters | Employment patterns (US Census Bureau) | Mileage | Yes | Yes |
| | Daytripper | Cellphone data | Mileage | No | Yes |

Finding 3. Estimating Seasonal Population

$$SPop = \frac{\left[(\frac{Seas_{HU_{2010}}}{HU_{2010}} * HU_{2017}) * ATPS_{2017} \right] * \Sigma_{i=1}^{4}(p_seas_i)}{4}$$

Seasonal Population Ratio=
$$\frac{SPop}{Pop_{2017}}$$

Impact

The suggested formula yielded an estimated 113,573 seasonal residents or a 1.97% population increase statewide.

Seasonal Population to Permanent Population Ratio in 2017

SPop: Seasonal population estimate

Seas_ HU_{2010} : Housing units vacant for seasonal and recreational use (2010 US Census)

 HU_{2010} :Housing Units in 2010 (2010 US Census)

 HU_{2017} : Housing Units in 2017 (2017 5-Year ACS)

 $ATPS_{2017}$: Average travel party size (Seasonal Tourism Volume, 2013-2017)

 p_seas_i : In each season, a percent of visitors to the peak season visitors (Seasonal Tourism Volume, 2013-2017)

 Pop_{2017} : Permenat population estimate (2017 NC State Demographer's Office)

| | | |
|------------------------------|---------------------|--|
| Seasonal Population Ratio | # of Municipalities | |
| >100% | 24 | |
| 50-99% | 8 | |
| 25-49% | 8 | |
| 10-24% | 20 | |
| 6-9% | 9 | |
| 3-6% | 31 | |
| 1-2% | 96 | |
| <1% | 356 | |
| Total | 552 | |